

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐  
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>		5. MINERAL LEASE NO: <b>UTU-75109</b>	6. SURFACE: <b>State</b>
1A. TYPE OF WORK: <b>DRILL</b> <input checked="" type="checkbox"/> <b>REENTER</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: <b>OIL</b> <input type="checkbox"/> <b>GAS</b> <input checked="" type="checkbox"/> <b>OTHER</b> _____ <b>SINGLE ZONE</b> <input type="checkbox"/> <b>MULTIPLE ZONE</b> <input checked="" type="checkbox"/>		8. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: <b>Enduring Resources, LLC</b>		9. WELL NAME and NUMBER: <b>Rock House10-23-24-29</b>	
3. ADDRESS OF OPERATOR: <b>475 17th St., Ste 1500</b> CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80220</b>		PHONE NUMBER: <b>(303) 350-5114</b>	
4. LOCATION OF WELL (FOOTAGES) <b>640880 X 4418422 Y 39.911252 - 109.351726</b> AT SURFACE: <b>502' FNL - 2138' FWL NESW</b> AT PROPOSED PRODUCING ZONE: <b>660' FSL - 1980' FWL SESW</b> <b>640923 X 4419350 Y 39.914437</b> <b>- 109.352379</b>		10. FIELD AND POOL, OR WILDCAT: <b>Nature of Butte</b> 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NESW 32 10S 23E S</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>77.4 miles southeast of Vernal, UT</b>		12. COUNTY: <b>Uintah</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>660' BHL</b>	16. NUMBER OF ACRES IN LEASE: <b>640</b>	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>40 acres</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>25' Surface 1200 BHL</b>	19. PROPOSED DEPTH: <b>7,780</b>	20. BOND DESCRIPTION: <b>RLB0008031</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>5201' KB-RT</b>	22. APPROXIMATE DATE WORK WILL START: <b>7/1/2006</b>	23. ESTIMATED DURATION: <b>20 days</b>	


24. PROPOSED CASING AND CEMENTING PROGRAM							
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
20"	14"	line pipe		40	3 yards	Ready Mix	
11"	8-5/8"	J-55	24#	2,016	Premium Lead	138 sxs	3.50 11.1
					Premium Tail	138 sxs	1.15 15.8
7-7/8"	4-1/2"	N-80	11.6#	7,780	Class G	107 sxs	3.3 11.0
					50/50 Poz Class G	885 sxs	1.56 14.3

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Alvin R. (Al) Arlian TITLE Landman - Regulatory Specialist

SIGNATURE  DATE 5/16/2006

(This space for State use only)

API NUMBER ASSIGNED: 43-847-38133

APPROVAL:

**RECEIVED**  
**MAY 19 2006**  
**DIV. OF OIL, GAS & MINING**

# T10S, R23E, S.L.B.&M.

## ENDURING RESOURCES

WELL LOCATION, ROCK HOUSE  
10-23-24-29, LOCATED AS SHOWN IN  
THE SE 1/4 SW 1/4 OF SECTION 29,  
T10S, R23E, S.L.B.&M. UTAH COUNTY,  
UTAH.

### NOTES:

1. Well footages are measured at right angles to the Section Lines.
2. The Bottom of hole bears N07°57'59"W 1172.30' from the Surface Position.
3. Bearings are based on Global Positioning Satellite observations.
4. BASIS OF ELEVATION IS TRIANGULATION STATION JEK 19 ET 1966 WHICH IS LOCATED NEAR THE SOUTH 1/4 CORNER OF SECTION 8, T11S, R23E, S.L.B.&M. THE ELEVATION OF THIS TRIANGULATION STATION IS SHOWN ON THE ARCHY BENCH SE 7.5 MIN. QUADRANGLE AS BEING 6054'.

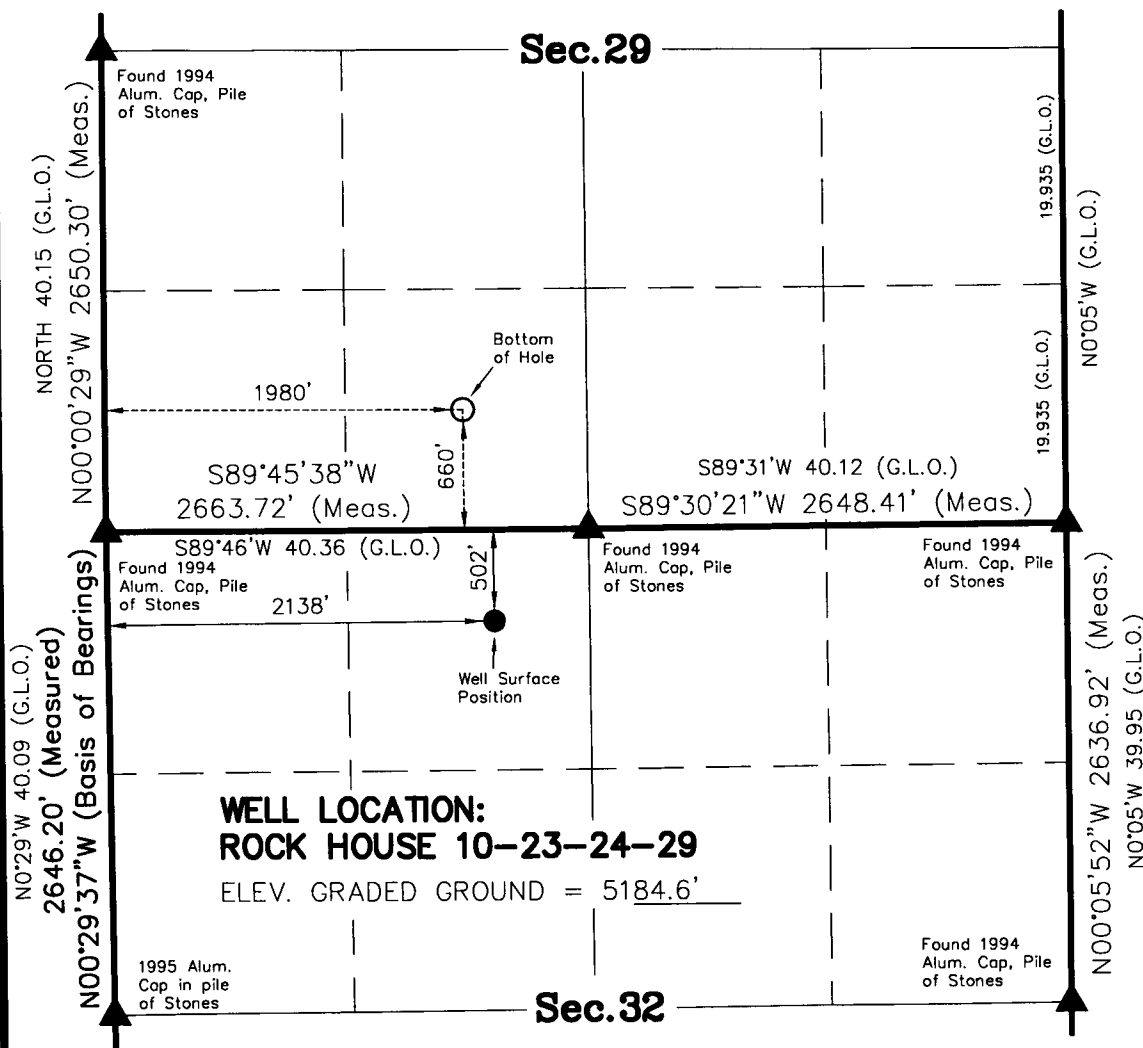
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

No. 362251  
KOLBY R. KAY  
REGISTERED LAND SURVEYOR  
STATE OF UTAH

## TIMBERLINE LAND SURVEYING, INC.

38 WEST 100 NORTH. - VERNAL, UTAH 84078  
(435) 789-1365

DATE SURVEYED: 12-03-05	SURVEYED BY: K.R.K.	SHEET 2b OF 10
DATE DRAWN: 12-21-05	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'	Date Last Revised:	



▲ = SECTION CORNERS LOCATED

**ROCK HOUSE 10-23-24-29**  
(Bottom Hole) NAD 83 Autonomous  
LATITUDE = 39° 54' 51.88"  
LONGITUDE = 109° 21' 11.57"

**ROCK HOUSE 10-23-24-29**  
(Surface Position) NAD 83 Autonomous  
LATITUDE = 39° 54' 40.41"  
LONGITUDE = 109° 21' 09.49"

**ENDURING RESOURCES, LLC**

425 Seventeenth Street, Suite 1500

Denver, Colorado 80202

Telephone: 303-573-1222

Facsimile: 303-573-0461

May 16, 2006

State of Utah  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt lake City, Utah 84114-5801

Attention: Diana Whitney

**RE: Rock House 10-23-24-29**

Surface Location: NENW Sec. 32-10S-23E

502' FNL – 2138' FWL

Lease Serial No.: ML-47063

Bottom Hole Location: SESW Sec. 29-10S-23E

660' FSL – 1980' FWL

Lease Serial No.: UTU-75109

Uintah County, Utah

Dear Ms. Whitney

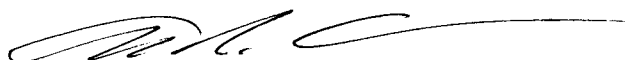
Attached are two applications to drill for the above-referenced proposed well. This well will be drilled on federal lands.

Enduring Resources, LLC respectfully requests that this information, and future information, be held confidential.

Should you have any questions concerning this matter, please do not hesitate to call (303-350-5114)

Very truly yours

**ENDURING RESOURCES, LLC**



Alvin R. (Al) Arlian  
Landman – Regulatory Specialist

ara/

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MAY 19 2006

DIV. OF OIL, GAS & MINING

**ENDURING RESOURCES, LLC**

425 Seventeenth Street, Suite 1500

Denver, Colorado 80202

Telephone: 303-573-1222

Facsimile: 303-573-0461

May 16, 2006

State of Utah  
Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

Attention: Ms. Diana Whitney

**RE: Request for Directional Well Location to Directionally Drill  
Rock House 10-23-24-29**

Surface Location: NENW Sec. 32-10S-23E

502' FNL – 2138' FWL

Lease Serial No.: ML-47063

Bottom Hole Location: SESW Sec. 29-10S-23E

660' FSL – 1980' FWL

Lease Serial No.: UTU-75109

Uintah County, Utah

Dear Ms. Whitney:

Enduring Resources, LLC ("ERLLC") respectfully requests permission to directionally drill the above-referenced well to reduce visual impact on the White River per the request of the BLM.

1. Enduring Resources, LLC is the only owner within 460' of any point of well bore,
2. Enduring Resources, LLC owns the entire section.

In the event there are any other outstanding matters preventing this APD from being approved, please let me know at your earliest convenience, 303-350-5114 ([aarlian@enduringresources.com](mailto:aarlian@enduringresources.com)).

Very truly yours

**ENDURING RESOURCES, LLC**



Alvin R. (Al) Arlian  
Landman – Regulatory Specialist

ara/

cc: SITLA

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MAY 19 2006  
DIV. OF OIL, GAS & MINING

# Enduring Resources, LLC

## Rock House 10-23-24-29

SW-NE 31-10S-23E (Bottom Hole Location)

NW-SE 31-10S-23E (Surface Location)

Uintah County, Utah

Federal Lease: UTU-75109

## ONSHORE ORDER 1 - DRILLING PLAN

### 1. Estimated Tops of Geological Markers:

Formation	Depth (K.B.)
Uinta	Surface
Green River	581
Wasatch	3331
Mesaverde	5171

### 2. Estimated Depths of Anticipated Water, Oil, Gas or Other Minerals:

Substance	Formation	Depth (K.B.) TVD
	KB-Uinta Elevation: 5201' est.	
Oil / Gas	Green River	581
Oil /Gas	Wasatch	3331
Oil /Gas	Mesaverde	5171
	TD	7780

An 11" hole will be drilled to approximately 2000 feet. The depth will be determined by the depth that the Birds Nest zone is encountered. The hole will be drilled 400 feet beyond the top of the Birds Nest zone and surface casing will be set.

### 3. Pressure Control Equipment: (3000 psi schematic attached)

- A. Type: Eleven (11) inch double gate hydraulic BOP with eleven (11) inch annular preventer on 3,000 psi casinghead, with 3,000 psi choke manifold equipped per the attached diagram. BOPE as specified in *Onshore Oil & Gas Order Number 2*. A PVT, stroke counter and flow sensor will be installed to check for flow and monitor pit volume.
- B. Pressure Rating: 3,000 psi BOPE
- C. Kelly will be equipped with upper and lower Kelly valves.
- D. Testing Procedure: Annular Preventer

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DIV. OF OIL, GAS & MINING

At a minimum, the annular preventer will be pressure tested to 50% of the stack rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition to the above, the annular preventer will be functionally operated at least weekly.

### Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition to the above, the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

### E. Miscellaneous Information:

The blowout preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*.

## 4. Proposed Casing & Cementing Program:

### A. Casing Program: All New

Hole Size	Casing Size	Wt./Ft.	Grade	Joint	Depth Set (MD)
20"	14" O.D.				40' (GL)
11"	8-5/8"	24#	J-55	ST&C	0 – 2016' (KB) est.
7-7/8"	4-1/2"	11.6#	N-80	LT&C	0 – 7780' (KB)

The surface casing will have guide shoe, 1 joint, insert float collar. Centralize the shoe joint with bowspring centralizers in the middle and top of the joint and the next 16 joints with bowspring centralizers on every other collar (8 centralizers total). Thread lock guide shoe.

Casing string(s) will be pressure tested to 0.22 psi/foot of casing string length or 1500 psi, whichever is greater (not to exceed 70% of the internal yield strength of the casing), after cementing and prior to drilling out from under the casing shoe.

**B. Casing Design Parameters:**

Depth (MD)	Casing	Collapse(psi)/SF	Burst (psi)/SF	Tension(mlbs)/SF
40' (GL)	14" OD			
2016' (KB)	8-5/8", 24#/ft, J55, STC	1370/1.52(a)	2950/3.28(b)	244/5.81(c)
7780' (KB)	4-1/2", 11.6#/ft, N-80, LTC	6350/1.57(d)	7780/2.09 (e)	223/2.88 (f)

- (a.) based on full evacuation of pipe with 8.6 ppg fluid on annulus
- (b.) based on 8.6 ppg gradient with no fluid on annulus
- (c.) based on casing string weight in 8.6 ppg mud
- (d.) based on full evacuation of pipe with 10.0 ppg fluid on annulus
- (e.) based on 9.2 ppg gradient, gas to surface, with no fluid on annulus,  
no gas gradient
- (f.) based on casing string weight in 9.2 ppg mud

**PROPOSED CEMENTING PROGRAM**

**Surface Casing (if well will circulate)-Cemented to surface**

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft <sup>3</sup> /sx)
8-5/8"	Lead	1516	Premium cement + 16% gel + 0.25 pps celloflake	138	25%	11.1	3.50
8-5/8"	Tail	500	Premium cement + 2% CaCl <sub>2</sub> + 0.25 pps celloflake	138	25%	15.8	1.15

A cement top job is required if cement fallback is greater than 10' below ground level. Top job (weight 15.8 ppg, yield 1.15 ft<sup>3</sup>/sx) cement will be premium cement w/ 3% CaCl<sub>2</sub> + 0.25 pps celloflake. Volume as required

**Surface Casing (if well will not circulate) - Cemented to surface**

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft <sup>3</sup> /sx)
8-5/8"	Lead	500	Premium cement + 2% CaCl <sub>2</sub> + 0.25 pps celloflake	138	25	15.8	1.15
8-5/8"	Top job	As req.	Premium cement + 3% CaCl <sub>2</sub> + 0.25 pps celloflake	As Req.		15.8	1.15

**Production Casing and Liner** - Cemented TD to 300' above base of surface casing

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft <sup>3</sup> /sx)
4-1/2"	Lead	1215	Class "G" + 5% NaCl + 12% Gel + 0.25 pps celloflake + 0.2% antifoam + 0.25% fluid loss + 1% extender	107	25	11.0	3.3
4-1/2"	Tail	4849	50/50 POZ Class G + 2% gel + 1% CaCl <sub>2</sub> + 0.2% dispersant + 0.2% fluid loss + 0.1% antifoam	885	25	14.3	1.56

Cement volumes for the 4-1/2" Production Casing will be calculated to provide a top of cement to 300' above base of surface casing. Cement volumes are approximate and were calculated under the assumption that a gauge hole will be achieved. Actual cement volumes may vary due to variations in the actual hole size and will be determined by running a caliper log on the drilled hole. Actual cement types may vary due to hole conditions and cement contractor used.

All waiting on cement (WOC) times will be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

5. **Drilling Fluids (mud) Program:**

Interval (MD)	Mud Weight	Fluid Loss	Viscosity	Mud Type
0' – 2016' (KB)		No cntrl		Air/mist
2000'-3000' (KB)	8.4-8.6	No cntrl	28-36	Water
3000'-7780' (KB)	8.8-9.8	8 - 10 ml	32-42	Water/Gel

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blowout will be available at the well site during drilling operations.

6. **Evaluation Program:**

Tests: No tests are currently planned.

Coring: No cores are currently planned.

Samples: No sampling is currently planned.



Logging

- Dual Induction – SFL /Gamma Ray/Caliper/SP/TDLT/CNL/ML  
TD to Base Surface Casing
- Cement Bond Log / Gamma Ray:  
TD to Base of Surface Casing or Top of Cement if below Base of Surface Casing

Stimulation: A stimulation or frac treatment will be designed for completion of this well based on openhole log analysis. The drill site, as approved, will be sufficient size to accommodate all completion activities.

7. **Abnormal Conditions:**

No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered or known to exist from previous wells drilled to similar depths in the general area.

Maximum anticipated bottom hole pressure equals approximately 4,046 psi (calculated at 0.52 psi/foot of hole) and maximum anticipated surface pressure equals approximately 2,334 psi (anticipated bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot of hole).

8. **Anticipated Starting Dates:**

- Anticipated Commencement Date- Within one year of APD issue.
- Drilling Days- Approximately 10 days
- Completion Days - Approximately 10 days
- Anticipate location construction within 30 days of permit issue.

9. **Variances:**

None anticipated

10. **Other:**

A Cultural Resource Inventory and Paleontology reconnaissance shall be conducted for the well location, access route and pipeline. The reports shall be submitted to the Division of Oil, Gas and Mining and the School and Institutional Trust lands Administration upon their receipt.

A measurement while drilling (MWD) system will be used to track and control the directional path of the wellbore.



**ENDURING RESOURCES**  
**Rock House 10-23-24-29**  
**NE/NW Sec. 32, T10S, R23E**  
**Uintah County, Utah**



**Weatherford**

**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	352.03	0.00	0.00	0.00	0.00	0.00	0.00	
2	2072.00	0.00	352.03	2072.00	0.00	0.00	0.00	0.00	0.00	KOP
3	2983.77	27.35	352.03	2949.53	211.47	-29.61	3.00	352.03	213.54	End Build
4	4373.31	27.35	352.03	4183.71	843.76	-118.13	0.00	0.00	851.99	Start Drop
5	5740.97	0.00	352.03	5500.00	1160.98	-162.54	2.00	180.00	1172.30	Start Hold
6	8020.97	0.00	352.03	7780.00	1160.98	-162.54	0.00	352.03	1172.30	TD



RKB Elevation: 5201.00

Ground Elevation: 5184.60

**WELL DETAILS**

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Rock House 10-23-24-29	0.00	0.00	7143631.91	2242693.17	39°54'40.410N	109°21'09.490W	N/A

**FIELD DETAILS**

Uintah, Utah  
Utah Central Zone  
U.S.A.  
  
Geodetic System: US State Plane Coordinate System 1983  
Ellipsoid: GRS 1980  
Zone: Utah, Central Zone  
Magnetic Model: igrf2005  
  
System Datum: Mean Sea Level  
Local North: True North

**SITE DETAILS**

NE/NW 32-10S-23E Pad  
Sec. 32, T10S, R23E, Uintah County, Utah  
502 FNL & 2138 FWL  
  
Site Centre Latitude: 39°54'40.410N  
Longitude: 109°21'09.490W  
  
Ground Level: 5184.60  
Positional Uncertainty: 0.00  
Convergence: 1.38

**TARGET DETAILS**

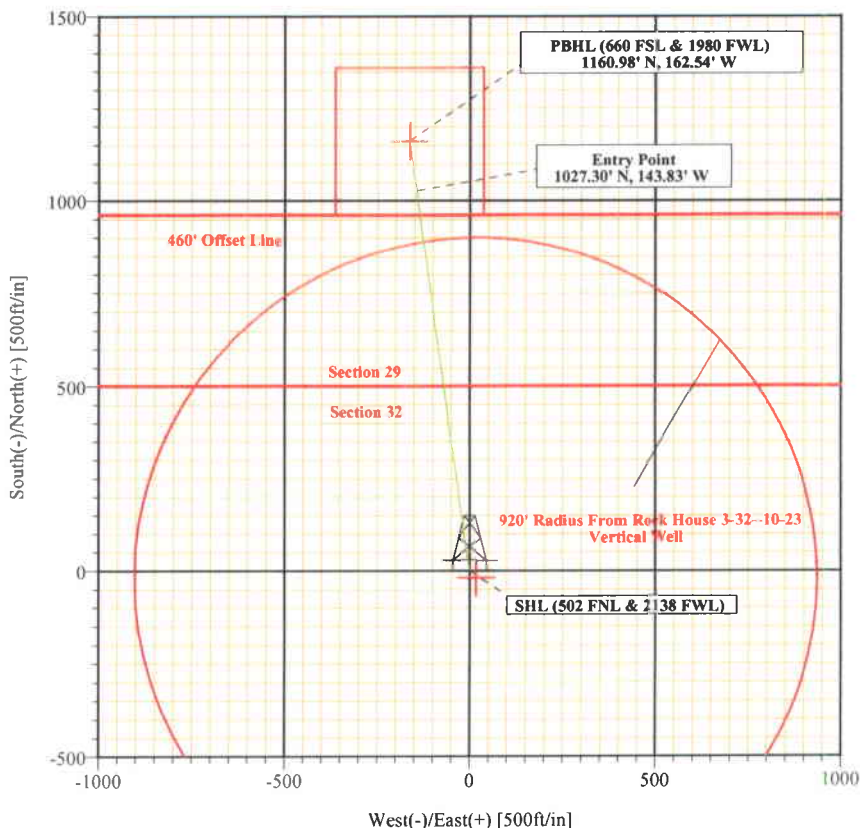
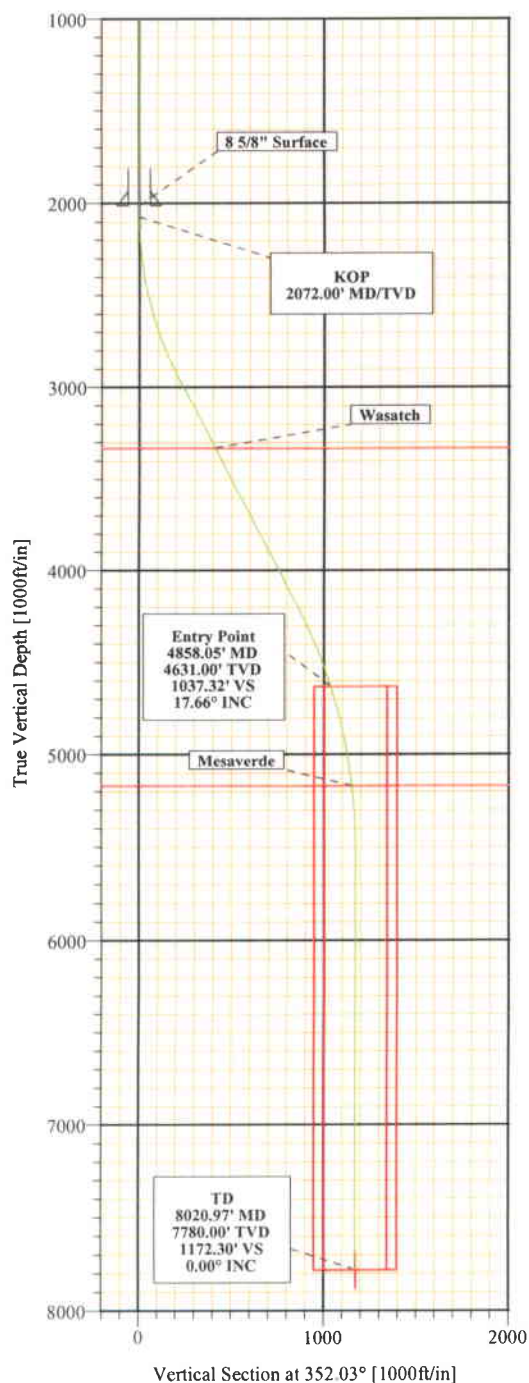
Name	TVD	+N/-S	+E/-W	Shape
Target	7780.00	1160.98	-162.54	Rectangle (400x400)

**CASING DETAILS**

No.	TVD	MD	Name	Size
1	2012.00	2012.00	8 5/8" Surface	8.625

**FORMATION TOP DETAILS**

No.	TVDPath	MDPath	Formation
1	581.00	581.00	Green River
2	3331.00	3413.26	Wasatch
3	5171.00	5411.24	Mesaverde



# Weatherford International

## Planning Report

<b>Company:</b> Enduring Resources <b>Field:</b> Uintah, Utah <b>Site:</b> NE/NW 32-10S-23E Pad <b>Well:</b> Rock House 10-23-24-29 <b>Wellpath:</b> 1	<b>Date:</b> 3/16/2006 <b>Co-ordinate(NE) Reference:</b> Well: Rock House 10-23-24-29, True North <b>Vertical (TVD) Reference:</b> SITE 5201.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,352.03Azi) <b>Plan:</b> Plan #1
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<b>Field:</b> Uintah, Utah Utah Central Zone U.S.A. <b>Map System:</b> US State Plane Coordinate System 1983 <b>Geo Datum:</b> GRS 1980 <b>Sys Datum:</b> Mean Sea Level	<b>Map Zone:</b> Utah, Central Zone <b>Coordinate System:</b> Well Centre <b>Geomagnetic Model:</b> igrf2005
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**Site:** NE/NW 32-10S-23E Pad  
 Sec. 32, T10S, R23E, Uintah County, Utah  
 502 FNL & 2138 FWL

<b>Site Position:</b> <b>From:</b> Geographic <b>Position Uncertainty:</b> 0.00 ft <b>Ground Level:</b> 5184.60 ft	<b>Northing:</b> 7143631.91 ft <b>Easting:</b> 2242693.17 ft	<b>Latitude:</b> 39 54 40.410 N <b>Longitude:</b> 109 21 9.490 W <b>North Reference:</b> True <b>Grid Convergence:</b> 1.38 deg
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**Well:** Rock House 10-23-24-29

**Slot Name:**

<b>Well Position:</b> +N/-S 0.00 ft +E/-W 0.00 ft <b>Position Uncertainty:</b> 0.00 ft	<b>Northing:</b> 7143631.91 ft <b>Easting:</b> 2242693.17 ft	<b>Latitude:</b> 39 54 40.410 N <b>Longitude:</b> 109 21 9.490 W
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**Wellpath:** 1

<b>Current Datum:</b> SITE <b>Magnetic Data:</b> 3/16/2006 <b>Field Strength:</b> 52880 nT <b>Vertical Section:</b> Depth From (TVD) ft	<b>Height</b> 5201.00 ft +N/-S ft	<b>Drilled From:</b> Surface <b>Tie-on Depth:</b> 0.00 ft <b>Above System Datum:</b> Mean Sea Level <b>Declination:</b> 11.67 deg <b>Mag Dip Angle:</b> 65.96 deg +E/-W Direction deg
7780.00	0.00	0.00 352.03

**Plan:** Plan #1

**Date Composed:** 3/16/2006  
**Version:** 1  
**Tied-to:** From Surface

**Principal:** Yes

### Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	352.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2072.00	0.00	352.03	2072.00	0.00	0.00	0.00	0.00	0.00	0.00	
2983.77	27.35	352.03	2949.53	211.47	-29.61	3.00	3.00	0.00	352.03	
4373.31	27.35	352.03	4183.71	843.76	-118.13	0.00	0.00	0.00	0.00	
5740.97	0.00	352.03	5500.00	1160.98	-162.54	2.00	-2.00	0.00	180.00	
8020.97	0.00	352.03	7780.00	1160.98	-162.54	0.00	0.00	0.00	352.03	Target

### Section 1 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
0.00	0.00	352.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	352.03	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	352.03
2012.00	0.00	352.03	2012.00	0.00	0.00	0.00	0.00	0.00	0.00	352.03
2072.00	0.00	352.03	2072.00	0.00	0.00	0.00	0.00	0.00	0.00	352.03

### Section 2 : Start Build 3.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
2100.00	0.84	352.03	2100.00	0.20	-0.03	0.21	3.00	3.00	0.00	0.00
2200.00	3.84	352.03	2199.90	4.25	-0.59	4.29	3.00	3.00	0.00	0.00
2300.00	6.84	352.03	2299.46	13.46	-1.88	13.59	3.00	3.00	0.00	0.00
2400.00	9.84	352.03	2398.39	27.82	-3.90	28.10	3.00	3.00	0.00	0.00
2500.00	12.84	352.03	2496.43	47.30	-6.62	47.76	3.00	3.00	0.00	0.00
2600.00	15.84	352.03	2593.30	71.82	-10.06	72.52	3.00	3.00	0.00	0.00
2700.00	18.84	352.03	2688.74	101.33	-14.19	102.32	3.00	3.00	0.00	0.00
2800.00	21.84	352.03	2782.50	135.75	-19.01	137.08	3.00	3.00	0.00	0.00
2900.00	24.84	352.03	2874.30	174.99	-24.50	176.69	3.00	3.00	0.00	0.00

# Weatherford International

## Planning Report

**Company:** Enduring Resources  
**Field:** Uintah, Utah  
**Site:** NE/NW 32-10S-23E Pad  
**Well:** Rock House 10-23-24-29  
**Wellpath:** 1

**Date:** 3/16/2006 **Time:** 13:15:32 **Page:** 2  
**Co-ordinate(NE) Reference:** Well: Rock House 10-23-24-29, True North  
**Vertical (TVD) Reference:** SITE 5201.0  
**Section (VS) Reference:** Well (0.00N,0.00E,352.03Azi)  
**Plan:** Plan #1

### Section 2 : Start Build 3.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
2983.77	27.35	352.03	2949.53	211.47	-29.61	213.54	3.00	3.00	0.00	0.00

### Section 3 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
3000.00	27.35	352.03	2963.94	218.86	-30.64	221.00	0.00	0.00	0.00	0.00
3100.00	27.35	352.03	3052.76	264.36	-37.01	266.94	0.00	0.00	0.00	0.00
3200.00	27.35	352.03	3141.58	309.87	-43.38	312.89	0.00	0.00	0.00	0.00
3300.00	27.35	352.03	3230.40	355.37	-49.75	358.84	0.00	0.00	0.00	0.00
3400.00	27.35	352.03	3319.22	400.87	-56.13	404.78	0.00	0.00	0.00	0.00
3413.26	27.35	352.03	3331.00	406.91	-56.97	410.88	0.00	0.00	0.00	0.00
3500.00	27.35	352.03	3408.04	446.38	-62.50	450.73	0.00	0.00	0.00	0.00
3600.00	27.35	352.03	3496.86	491.88	-68.87	496.68	0.00	0.00	0.00	0.00
3700.00	27.35	352.03	3585.68	537.38	-75.24	542.63	0.00	0.00	0.00	0.00
3800.00	27.35	352.03	3674.50	582.89	-81.61	588.57	0.00	0.00	0.00	0.00
3900.00	27.35	352.03	3763.32	628.39	-87.98	634.52	0.00	0.00	0.00	0.00
4000.00	27.35	352.03	3852.14	673.89	-94.35	680.47	0.00	0.00	0.00	0.00
4100.00	27.35	352.03	3940.96	719.40	-100.72	726.41	0.00	0.00	0.00	0.00
4200.00	27.35	352.03	4029.77	764.90	-107.09	772.36	0.00	0.00	0.00	0.00
4300.00	27.35	352.03	4118.59	810.40	-113.46	818.31	0.00	0.00	0.00	0.00
4373.31	27.35	352.03	4183.71	843.76	-118.13	851.99	0.00	0.00	0.00	0.00

### Section 4 : Start Drop -2.00

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4400.00	26.82	352.03	4207.47	855.80	-119.82	864.15	2.00	-2.00	0.00	180.00
4500.00	24.82	352.03	4297.48	898.93	-125.86	907.70	2.00	-2.00	0.00	180.00
4600.00	22.82	352.03	4388.96	938.92	-131.46	948.08	2.00	-2.00	0.00	180.00
4700.00	20.82	352.03	4481.79	975.73	-136.61	985.25	2.00	-2.00	0.00	180.00
4800.00	18.82	352.03	4575.86	1009.31	-141.31	1019.15	2.00	-2.00	0.00	180.00
4858.05	17.66	352.03	4631.00	1027.30	-143.83	1037.32	2.00	-2.00	0.00	180.00
4900.00	16.82	352.03	4671.06	1039.61	-145.55	1049.75	2.00	-2.00	0.00	-180.00
5000.00	14.82	352.03	4767.27	1066.61	-149.33	1077.01	2.00	-2.00	0.00	180.00
5100.00	12.82	352.03	4864.37	1090.26	-152.64	1100.89	2.00	-2.00	0.00	180.00
5200.00	10.82	352.03	4962.24	1110.54	-155.48	1121.38	2.00	-2.00	0.00	180.00
5300.00	8.82	352.03	5060.77	1127.43	-157.85	1138.43	2.00	-2.00	0.00	180.00
5400.00	6.82	352.03	5159.84	1140.91	-159.73	1152.03	2.00	-2.00	0.00	180.00
5411.24	6.59	352.03	5171.00	1142.21	-159.92	1153.35	2.00	-2.00	0.00	180.00
5500.00	4.82	352.03	5259.32	1150.95	-161.14	1162.17	2.00	-2.00	0.00	-180.00
5600.00	2.82	352.03	5359.09	1157.54	-162.06	1168.83	2.00	-2.00	0.00	180.00
5700.00	0.82	352.03	5459.04	1160.69	-162.50	1172.01	2.00	-2.00	0.00	180.00
5740.97	0.00	352.03	5500.00	1160.98	-162.54	1172.30	2.00	-2.00	0.00	-180.00

### Section 5 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
5800.00	0.00	352.03	5559.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
5900.00	0.00	352.03	5659.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
6000.00	0.00	352.03	5759.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
6100.00	0.00	352.03	5859.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
6200.00	0.00	352.03	5959.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
6300.00	0.00	352.03	6059.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
6400.00	0.00	352.03	6159.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
6500.00	0.00	352.03	6259.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
6600.00	0.00	352.03	6359.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
6700.00	0.00	352.03	6459.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
6800.00	0.00	352.03	6559.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
6900.00	0.00	352.03	6659.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
7000.00	0.00	352.03	6759.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
7100.00	0.00	352.03	6859.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
7200.00	0.00	352.03	6959.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03

# Weatherford International

## Planning Report

**Company:** Enduring Resources  
**Field:** Uintah, Utah  
**Site:** NE/NW 32-10S-23E Pad  
**Well:** Rock House 10-23-24-29  
**Wellpath:** 1

**Date:** 3/16/2006 **Time:** 13:15:32 **Page:** 3  
**Co-ordinate(NE) Reference:** Well: Rock House 10-23-24-29, True North  
**Vertical (TVD) Reference:** SITE 5201.0  
**Section (VS) Reference:** Well (0.00N,0.00E,352.03Azi)  
**Plan:** Plan #1

### Section 5 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
7300.00	0.00	352.03	7059.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
7400.00	0.00	352.03	7159.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
7500.00	0.00	352.03	7259.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
7600.00	0.00	352.03	7359.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
7700.00	0.00	352.03	7459.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
7800.00	0.00	352.03	7559.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
7900.00	0.00	352.03	7659.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
8000.00	0.00	352.03	7759.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03
8020.97	0.00	352.03	7780.00	1160.98	-162.54	1172.30	0.00	0.00	0.00	352.03

### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2000.00	0.00	352.03	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
2012.00	0.00	352.03	2012.00	0.00	0.00	0.00	0.00	0.00	0.00	8 5/8" Surface
2072.00	0.00	352.03	2072.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
2100.00	0.84	352.03	2100.00	0.20	-0.03	0.21	3.00	3.00	0.00	MWD
2200.00	3.84	352.03	2199.90	4.25	-0.59	4.29	3.00	3.00	0.00	MWD
2300.00	6.84	352.03	2299.46	13.46	-1.88	13.59	3.00	3.00	0.00	MWD
2400.00	9.84	352.03	2398.39	27.82	-3.90	28.10	3.00	3.00	0.00	MWD
2500.00	12.84	352.03	2496.43	47.30	-6.62	47.76	3.00	3.00	0.00	MWD
2600.00	15.84	352.03	2593.30	71.82	-10.06	72.52	3.00	3.00	0.00	MWD
2700.00	18.84	352.03	2688.74	101.33	-14.19	102.32	3.00	3.00	0.00	MWD
2800.00	21.84	352.03	2782.50	135.75	-19.01	137.08	3.00	3.00	0.00	MWD
2900.00	24.84	352.03	2874.30	174.99	-24.50	176.69	3.00	3.00	0.00	MWD
2983.77	27.35	352.03	2949.53	211.47	-29.61	213.54	3.00	3.00	0.00	End Build
3000.00	27.35	352.03	2963.94	218.86	-30.64	221.00	0.00	0.00	0.00	MWD
3100.00	27.35	352.03	3052.76	264.36	-37.01	266.94	0.00	0.00	0.00	MWD
3200.00	27.35	352.03	3141.58	309.87	-43.38	312.89	0.00	0.00	0.00	MWD
3300.00	27.35	352.03	3230.40	355.37	-49.75	358.84	0.00	0.00	0.00	MWD
3400.00	27.35	352.03	3319.22	400.87	-56.13	404.78	0.00	0.00	0.00	MWD
3413.26	27.35	352.03	3331.00	406.91	-56.97	410.88	0.00	0.00	0.00	Wasatch
3500.00	27.35	352.03	3408.04	446.38	-62.50	450.73	0.00	0.00	0.00	MWD
3600.00	27.35	352.03	3496.86	491.88	-68.87	496.68	0.00	0.00	0.00	MWD
3700.00	27.35	352.03	3585.68	537.38	-75.24	542.63	0.00	0.00	0.00	MWD
3800.00	27.35	352.03	3674.50	582.89	-81.61	588.57	0.00	0.00	0.00	MWD
3900.00	27.35	352.03	3763.32	628.39	-87.98	634.52	0.00	0.00	0.00	MWD
4000.00	27.35	352.03	3852.14	673.89	-94.35	680.47	0.00	0.00	0.00	MWD
4100.00	27.35	352.03	3940.96	719.40	-100.72	726.41	0.00	0.00	0.00	MWD
4200.00	27.35	352.03	4029.77	764.90	-107.09	772.36	0.00	0.00	0.00	MWD
4300.00	27.35	352.03	4118.59	810.40	-113.46	818.31	0.00	0.00	0.00	MWD
4373.31	27.35	352.03	4183.71	843.76	-118.13	851.99	0.00	0.00	0.00	Start Drop
4400.00	26.82	352.03	4207.47	855.80	-119.82	864.15	2.00	-2.00	0.00	MWD
4500.00	24.82	352.03	4297.48	898.93	-125.86	907.70	2.00	-2.00	0.00	MWD
4600.00	22.82	352.03	4388.96	938.92	-131.46	948.08	2.00	-2.00	0.00	MWD
4700.00	20.82	352.03	4481.79	975.73	-136.61	985.25	2.00	-2.00	0.00	MWD
4800.00	18.82	352.03	4575.86	1009.31	-141.31	1019.15	2.00	-2.00	0.00	MWD
4858.05	17.66	352.03	4631.00	1027.30	-143.83	1037.32	2.00	-2.00	0.00	Entry Point
4900.00	16.82	352.03	4671.06	1039.61	-145.55	1049.75	2.00	-2.00	0.00	MWD
5000.00	14.82	352.03	4767.27	1066.61	-149.33	1077.01	2.00	-2.00	0.00	MWD
5100.00	12.82	352.03	4864.37	1090.26	-152.64	1100.89	2.00	-2.00	0.00	MWD
5200.00	10.82	352.03	4962.24	1110.54	-155.48	1121.38	2.00	-2.00	0.00	MWD
5300.00	8.82	352.03	5060.77	1127.43	-157.85	1138.43	2.00	-2.00	0.00	MWD
5400.00	6.82	352.03	5159.84	1140.91	-159.73	1152.03	2.00	-2.00	0.00	MWD
5411.24	6.59	352.03	5171.00	1142.21	-159.92	1153.35	2.00	-2.00	0.00	Mesaverde

# Weatherford International

## Planning Report

<b>Company:</b> Enduring Resources <b>Field:</b> Uintah, Utah <b>Site:</b> NE/NW 32-10S-23E Pad <b>Well:</b> Rock House 10-23-24-29 <b>Wellpath:</b> 1	<b>Date:</b> 3/16/2006 <b>Co-ordinate(NE) Reference:</b> Well: Rock House 10-23-24-29, True North <b>Vertical (TVD) Reference:</b> SITE 5201.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,352.03Azi) <b>Plan:</b> Plan #1
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### Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
5500.00	4.82	352.03	5259.32	1150.95	-161.14	1162.17	2.00	-2.00	0.00	MWD
5600.00	2.82	352.03	5359.09	1157.54	-162.06	1168.83	2.00	-2.00	0.00	MWD
5700.00	0.82	352.03	5459.04	1160.69	-162.50	1172.01	2.00	-2.00	0.00	MWD
5740.97	0.00	352.03	5500.00	1160.98	-162.54	1172.30	2.00	-2.00	0.00	Start Hold
5800.00	0.00	352.03	5559.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
5900.00	0.00	352.03	5659.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
6000.00	0.00	352.03	5759.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
6100.00	0.00	352.03	5859.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
6200.00	0.00	352.03	5959.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
6300.00	0.00	352.03	6059.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
6400.00	0.00	352.03	6159.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
6500.00	0.00	352.03	6259.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
6600.00	0.00	352.03	6359.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
6700.00	0.00	352.03	6459.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
6800.00	0.00	352.03	6559.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
6900.00	0.00	352.03	6659.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
7000.00	0.00	352.03	6759.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
7100.00	0.00	352.03	6859.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
7200.00	0.00	352.03	6959.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
7300.00	0.00	352.03	7059.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
7400.00	0.00	352.03	7159.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
7500.00	0.00	352.03	7259.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
7600.00	0.00	352.03	7359.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
7700.00	0.00	352.03	7459.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
7800.00	0.00	352.03	7559.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
7900.00	0.00	352.03	7659.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
8000.00	0.00	352.03	7759.03	1160.98	-162.54	1172.30	0.00	0.00	0.00	MWD
8020.97	0.00	352.03	7780.00	1160.98	-162.54	1172.30	0.00	0.00	0.00	TD

### Targets

Name	Description	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec	← Longitude → Deg Min Sec
Target			7780.00	1160.98	-162.54	7144788.65	2242502.80	39 54 51.884 N	109 21 11.576 W
-Rectangle (400x400)									
-Plan hit target									

### Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2012.00	2012.00	8.625	12.250	8 5/8" Surface

### Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
581.00	581.00	Green River		0.00	0.00
3413.26	3331.00	Wasatch		0.00	0.00
5411.24	5171.00	Mesaverde		0.00	0.00

# Weatherford International

## Planning Report

**Company:** Enduring Resources  
**Field:** Uintah, Utah  
**Site:** NE/NW 32-10S-23E Pad  
**Well:** Rock House 10-23-24-29  
**Wellpath:** 1

**Date:** 3/16/2006  
**Co-ordinate(NE) Reference:** Well: Rock House 10-23-24-29, True North  
**Vertical (TVD) Reference:** SITE 5201.0  
**Section (VS) Reference:** Well (0.00N,0.00E,352.03Azi)  
**Plan:** Plan #1

**Page:** 5

### Annotation

MD ft	TVD ft	
2072.00	2072.00	SHL (502 FNL & 2138 FWL)
2983.77	2949.53	KOP
4373.31	4183.71	End Build
4858.05	4631.00	Start Drop
5740.97	5500.00	Entry Point
8020.97	7780.00	Start Hold
8020.97	7780.00	PBHL (660 FSL & 1980 FWL)
8020.97	7780.00	TD

## SELF-CERTIFICATION STATEMENT

The following self-certification statement is provided per federal requirements dated June 15, 1988.

Please be advised that Enduring Resources, LLC is considered to be the operator of the following well.

**Rock House 10-23-24-29**

Surface Location: NENW Sec. 32-10S-23E

502' FNL – 2138' FWL

Lease Serial No.: ML-47063

Bottom Hole Location: SESW Sec. 29-10S-23E

660' FSL – 1980' FWL

Lease Serial No.: UTU-75109

Uintah County, Utah

Enduring Resources, LLC is responsible under the terms and conditions of the lease for the operations conducted upon leased lands. Bond coverage is provided by UTB000173.



Alvin R. (Al) Arlian  
Regulatory Specialist  
Enduring Resources, LLC  
475 17th Street, Suite 1500  
Denver, CO 80202  
(303) 350-5114

May 16, 2006

Date



## **SELF-CERTIFICATION STATEMENT**

The following self-certification statement is provided per federal requirements dated June 15, 1988.

Please be advised that Enduring Resources, LLC is considered to be the operator of the following well.

**Rock House 10-23-24-29**

Surface Location: NENW Sec. 32-10S-23E

502' FNL – 2138' FWL

Lease Serial No.: ML-47063

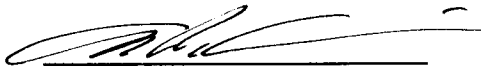
Bottom Hole Location: SESW Sec. 29-10S-23E

660' FSL – 1980' FWL

Lease Serial No.: UTU-75109

Uintah County, Utah

Enduring Resources, LLC is responsible under the terms and conditions of the lease for the operations conducted upon leased lands. Bond coverage is provided by UTB000173.



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475 17th Street, Suite 1500  
Denver, CO 80202  
(303) 350-5114

May 16, 2006

Date

## **Enduring Resources, LLC**

**Rock House 10-23-24-29**  
**SE-SW 29-10S-23E (Bottom Hole Location)**  
**NE-NW 32-10S-23E (Surface Location)**  
**Uintah County, Utah**  
**ML-47063 Surface**  
**UTU-73109 (BHL)**

**This well was previously known and on-sited as the Asphalt 10-23-24-29. The well will be directionally drilled from the Rock House 3-32-10-23 well pad.**

### **ONSHORE OIL & GAS ORDER NO. 1 MULTI-POINT SURFACE USE & OPERATIONS PLAN**

#### **1. Existing Roads:**

Directions to the proposed location are as follows:

FROM THE INTERSECTION OF U.S. HIGHWAY 40 AND 500 EAST STREET IN VERNAL, UTAH PROCEED IN AN EASTERLY THEN SOUTHERLY DIRECTION ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.3 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 45 APPROXIMATELY 40.5 MILES TO THE JUNCTION OF THE DRAGON ROAD (COUNTY B ROAD 4180). THIS ROAD IS LOCATED APPROXIMATELY 4.8 MILES SOUTH OF BONANZA, UTAH. EXIT LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION ALONG COUNTY B ROAD 4180 APPROXIMATELY 4.0 MILES TO THE JUNCTION OF THE KINGS WELLS ROAD (COUNTY B ROAD 4190). EXIT RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION ALONG COUNTY B ROAD 4190 APPROXIMATELY 8.7 MILES TO THE JUNCTION OF THE ATCHEE RIDGE ROAD (COUNTY B ROAD 4270). CONTINUE ALONG COUNTY B ROAD 4190 IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 4.3 MILES TO THE JUNCTION OF THE LONG DRAW ROAD (COUNTY B ROAD 4260). CONTINUE ALONG COUNTY B ROAD 4190 IN A SOUTHERLY, THEN WESTERLY DIRECTION APPROXIMATELY 4.0 MILES TO THE JUNCTION OF COUNTY B ROAD 4160. EXIT RIGHT AND PROCEED IN A NORTHERLY DIRECTION ALONG COUNTY B ROAD 4160 APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THE BITTER CREEK ROAD (COUNTY B ROAD 4120). EXIT LEFT AND PROCEED IN A WESTERLY DIRECTION ALONG COUNTY B ROAD 4120 APPROXIMATELY 1.9 MILES TO THE JUNCTION OF COUNTY B ROAD 4230. EXIT RIGHT AND PROCEED IN A NORTHERLY DIRECTION ALONG COUNTY B ROAD 4230 APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THE ATCHEES WASH ROAD (COUNTY B ROAD 4240). EXIT RIGHT AND PROCEED IN A NORTHERLY DIRECTION ALONG COUNTY B ROAD 4240 APPROXIMATELY 2.7 MILES TO THE INTERSECTION OF A CLASS D COUNTY ROAD. EXIT LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1.4 MILES TO THE INTERSECTION OF THE SADDLETREE DRAW ROAD (COUNTY B ROAD 4230); EXIT RIGHT AND PROCEED IN A NORTHERLY DIRECTION ALONG COUNTY B ROAD 4230 APPROXIMATELY 5.1 TO THE INTERSECTION OF A SERVICE

ROAD. EXIT LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 0.1 MILES TO THE EXISTING ROCK HOUSE 3-32-10-23 LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE ROCK HOUSE 3-32-10-23 WELL LOCATION IS APPROXIMATELY 77.4 MILES IN A SOUTHEASTERLY DIRECTION.

## 2. Planned Access Roads:

**This well will be directionally drilled from the Houston Exploration Company Rockhouse 3-32-10-23 well pad. It is anticipated that no new road or pipeline will be constructed. Please refer to Topo Map "B" for the well access.**

The current access road will be utilized to transport personnel, equipment and supplies to and from the proposed well site during drilling, completion and production operations. The road will be utilized year round.

Surface disturbance and vehicular traffic will be limited to the current location and access route. Any additional area needed will be approved in advance. If any needed, all construction shall be in conformance with the standards outlined in the BLM and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. 1989.

The road surface and shoulders will be kept in a safe usable condition and will be maintained in accordance with the original construction standards. All drainage ditches will be kept clear and free flowing and will be maintained according to original construction standards. The access road surface will be kept free of trash during operations. All traffic will be confined to the approved disturbed surface. Road drainage crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the road bed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided. When snow is removed from the road during the winter months, the snow shall be pushed outside of the borrow ditches and the turnouts kept clear so that snowmelt will be channeled away from the road.

## 3. Location of Existing Wells within a One-Mile radius (See "Topo" Map "C" attached):

The following wells are wells located within a one (1) mile radius of the proposed location.

- |    |       |                  |
|----|-------|------------------|
| a. | None: | Water Wells:     |
| b. | None: | Injection Wells: |
| c. | Five: | Producing Wells: |
|    | 1.    | Rock House 2D-32 |

- 2. Rock House 6D-32
- 3. Rock House 12D-32
- 4. Rock House 10D-32
- 5. Rock House 3-32-10-23
- d. None: Drilling Wells:
- e. None: Shut-in Wells:
- f. None: Temporarily Abandoned Wells:
- g. None: Disposal Wells:
- h. None: Abandoned Wells:
- i. None: Dry Holes:
- j. None: Observation Wells:
- k. Various: Enduring Resources has 8 other wells staked w/ one mile of this well.

#### 4. Location of Existing and/or Proposed Facilities:

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e. production tanks, produced water tanks and/or heater treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank and be independent of the back cut.

All permanent (on site for six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the rocky Mountain Five State Inter-Agency Committee

All facilities will be painted within 6 months of installation. The color shall be as the tanks and production equipment for the Rock House 3-32-10-23 Well. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

Gas Gathering Pipeline:	ON-LEASE	-0'	BLM
	OFF-LEASE	-0'	BLM

If the well is capable of economic production, **the well shall tie-in to the pipeline to the Rock House 3-32-10-23 Well. No new pipeline shall be required. The gas meter run will be located within 500 feet of the wellhead. The meter run will be housed. The gas gathering line will be buried or anchored down from the wellhead to the meter.**

Upon plugging and abandonment, the gas gathering line will be removed and the disturbed area will be re-contoured and restored as near as practical to the original condition. If necessary, re-seeding operations will be performed after completion of

other reclamation operations. **However, the gas gathering line shall not be removed until the last well on this pad stops producing.**

**5. Location and Type of Water Supply:**

Whenever practical, water will be obtained from Enduring Resources LLC Water Right Number 49-2215 or Water Right Number 49-2216 (\*See Townships of permitted Use below). If those sources are not available, a new water source shall be submitted prior to commencing operations. (These permits have one-year terms and then must be renewed)

\*Enduring Water Permits' Townships of Use:

T10S-R22E	T11S-R22E	T12S-R22E
<b><u>T10S-R23E</u></b>	T11S-R23E	T12S-R23E
T10S-R24E	T11S-R24E	T12S-R24E

Water will be hauled to the location over the roads marked on "Topo" Maps "A" and "B."

No water well is to be drilled on this lease.

**6 Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized for location and access road construction.

Any gravel will be obtained from a commercial source; however, gravel sized rock debris associated with location and access road construction may be used as access road surfacing material.

**7. Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break or allow discharge of liquids.

The reserve pit will be lined with ¼ felt and a minimum of 16 mm plastic with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the will

be disposed of in the pit.

A chemical portable toilet will be furnished with the drilling rig. The toilet will be replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

Garbage, trash and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported or disposed of in association with the drilling, completion or testing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported or disposed of in association with the drilling, completion or testing of this well.

Produced oil will be stored in an oil tank and then hauled by truck to a crude purchaser facility. Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to an approved disposal site.

**8. Ancillary Facilities:**

During drilling operations, approximately 20 days, the site will be a manned camp. Three or four additional trailers will be on location to serve as the crews' housing and eating facilities. These will be located on the perimeter of the pad site within the topsoil stockpiles. Refer to Sheet 4.

**9. Well Site Layout: (Refer to Sheets #2, #3, and #4)**

The attached Location Layout Diagrams described drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s) and surface material stockpiles(s).

Please see the attached diagram for rig orientation and access roads.

The top soil will be windrowed rather than piled. It will be reseeded and track walker at the time the location is constructed. Seeding will be with the determined during the onsite. (Refer to "Seed Mixture for Windrowed Top Soil Will included:" following herein.

The top soil removed from the pit area will be store separately and will not be reseeded until the pit is reclaimed.

All pits shall be fence to the following minimum standards:

- a. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- b. The net wire shall be no more than 2 inches above the ground. The barbed wire shall be 3 inches over the net wire. Total height of the fence shall be at least 42 inches.
- c. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- d. Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two fence posts shall be no greater than 16 feet.
- e. All wire shall be stretched by, using a stretching device, before it is attached to corner posts.
- f. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.
- g. Location size may change prior to drilling the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling, the location will be re-surveyed and a Form 9 will be submitted.

**10. Plans for Surface Reclamation:**

**Producing Location:**

- a. Immediately (**unless an additional directional well is drilled from this pad within nine months**) upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, materials, trash and debris not required for production.
- b. Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 40CFR 3162.7.
- c. Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.
- d. The reserve pit and that portion of the location not needed for production facilities/operations (**unless an additional directional well is drilled from this pad within nine months**) will be re-contoured to the approximated natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.
- e. To prevent surface water(s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface 3 feet above surrounding round surface to allow the reclaimed pit area to drain effectively.
- f. Upon completion of back filling, leveling and re-contouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

**Dry Hole/Abandoned Location:**

**Dry Hole/Abandoned Location:**

- i. Abandoned well sites, roads and other disturbed areas will be restored as nearly as practical to their original condition **(when the last well on this pad is plugged)**. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions and re-establishment of vegetation as specified.
- ii. All disturbed surfaces will be re-contoured to the approximated natural contours with reclamation of the well pad and access road to be performed as soon as practical after final abandonment **of the last well on the pad**. If necessary, re-seeding operations will be performed after completion of other reclamation operations.

**Seed Mixture for Windrowed Top Soil Will Included:****11. Surface Ownership: Location, Access and Pipeline Route:**

Wellsite: SITLA (built)  
Access: SITLA (built)  
Pipeline: SITLA (already laid)

**12. Other Information****On-site Inspection for Location, Access and Pipeline Route:**

The on-site for this new surface location will be conducted by the DOG&M. **The BLM will be notified of that date.**

**Special Conditions of Approval:**

None.

**Archeology:**

- a. A new Cultural Resource Inventory Report has not been requested, however, a Cultural Resource Inventory report was prepared prior to the Rock House 3-32-10-23 being drilled.

**Paleontology:**

- a. A new Paleontology Reconnaissance Report was not requested, however, a Paleontology Reconnaissance Report was prepared prior to the Rock House 3-32-10-23 pad being built.



would affect such sites will be suspended and the discovery reported promptly to the surface management agency.

**13, Lessee's or Operator's Representative and Certification:**

**Representatives:**

Alvin R. (Al) Arlian  
Landman – Regulatory Specialist  
Enduring Resources, LLC  
475 17<sup>th</sup> Street, Suite 1500  
Denver, Colorado 80202  
Office Tel: 303-350-5114  
Fax Tel: 303-573-0461  
[aarlian@enduringresources.com](mailto:aarlian@enduringresources.com)

Teme Singleton  
Drilling Engineer  
Enduring Resources, LLC  
475 17<sup>th</sup> Street, Suite 1500  
Denver, Colorado 80202  
Office Tel: 303-573-5711  
Fax Tel: 303-573-0461  
[fhutto@enduringresources.com](mailto:fhutto@enduringresources.com)

**Certification:**

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Enduring Resources, LLC is considered to be the operator of the subject well. Enduring Resources, LLC agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 DFR 3104 for the lease activities is being provided by BLM Statewide bond #UTB000173.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions with currently exist; that the statement made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by enduring resources, LLC and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.



Alvin R. Arlian  
Landman-Regulatory-Specialist

May 16, 2006

Date:



PHOTO VIEW: FROM CORNER #1 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO VIEW: EXISTING ACCESS ROAD

CAMERA ANGLE: SOUTHERLY

## ENDURING RESOURCES

Rock House 10-23-3-32, Rock House 10-23-34-29,  
Rock House 10-23-24-29 & Rock House 10-23-11-32  
SECTION 32, T10S, R23E, S.L.B.&M.  
521' FNL & 2154' FWL

## LOCATION PHOTOS

TAKEN BY: K.R.K.

DRAWN BY: M.W.W.

DATE TAKEN: 12-08-15

DATE DRAWN: 12-09-05

REVISED:

## Timberline Land Surveying, Inc.

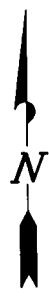
38 West 100 North Vernal, Utah 84078  
(435) 789-1365

SHEET  
1  
OF 10

# ENDURING RESOURCES

## WELL PAD INTERFERENCE PLAT

ROCK HOUSE 3-32-10-23, ROCK HOUSE 10-23-34-29,  
ROCK HOUSE 10-23-24-29 & ROCK HOUSE 10-23-11-32



### SURFACE POSITION FOOTAGES:

ROCK HOUSE 10-23-11-32  
482' FNL & 2122' FWL

ROCK HOUSE 10-23-24-29  
502' FNL & 2138' FWL

ROCK HOUSE 3-32-10-23  
521' FNL & 2154' FWL

ROCK HOUSE 10-23-34-29  
541' FNL & 2169' FWL

### BOTTOM HOLE FOOTAGES

ROCK HOUSE 10-23-11-32  
660' FNL & 660' FWL

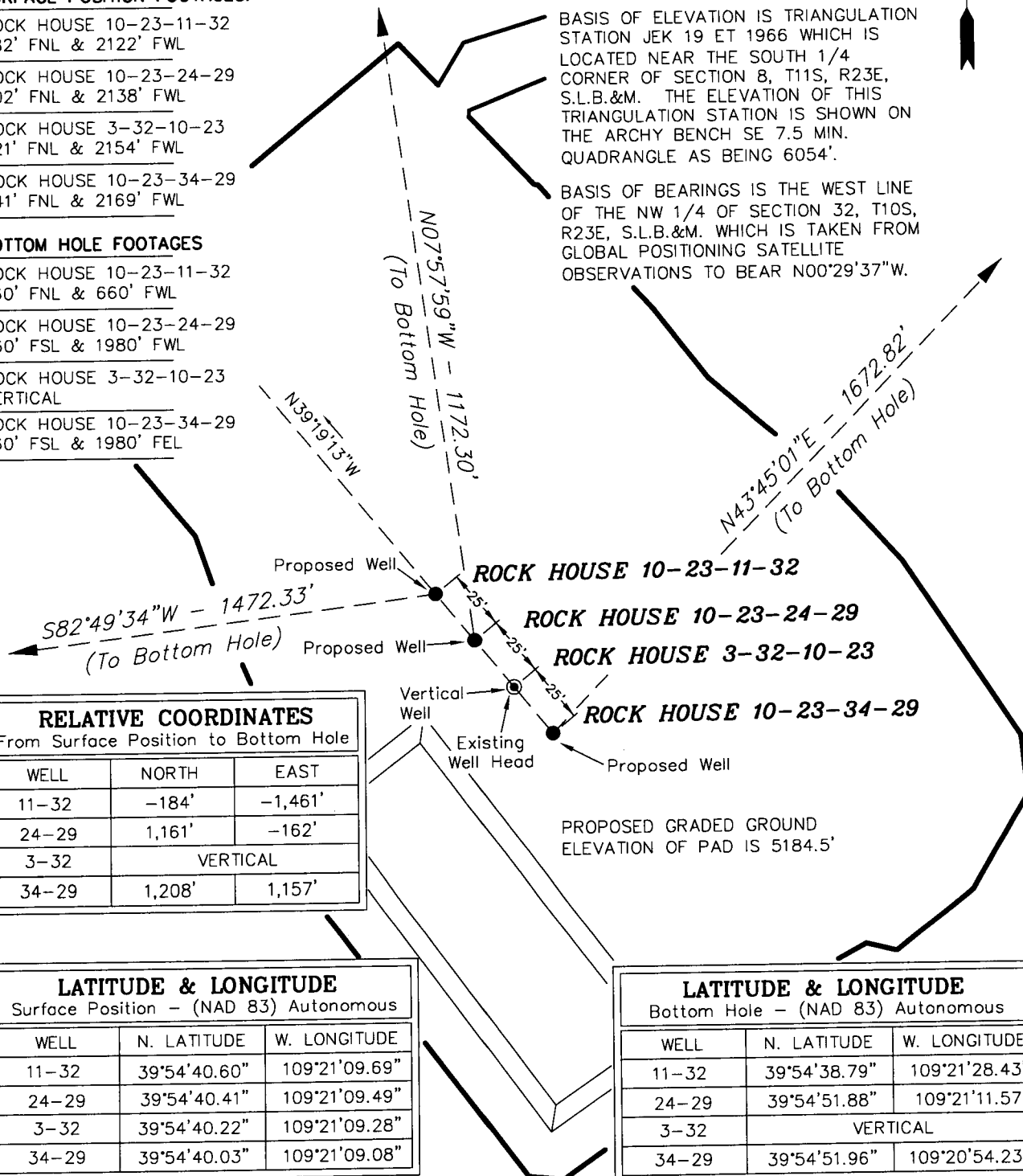
ROCK HOUSE 10-23-24-29  
660' FSL & 1980' FWL

ROCK HOUSE 3-32-10-23  
VERTICAL

ROCK HOUSE 10-23-34-29  
660' FSL & 1980' FEL

BASIS OF ELEVATION IS TRIANGULATION  
STATION JEK 19 ET 1966 WHICH IS  
LOCATED NEAR THE SOUTH 1/4  
CORNER OF SECTION 8, T11S, R23E,  
S.L.B.&M. THE ELEVATION OF THIS  
TRIANGULATION STATION IS SHOWN ON  
THE ARCHY BENCH SE 7.5 MIN.  
QUADRANGLE AS BEING 6054'.

BASIS OF BEARINGS IS THE WEST LINE  
OF THE NW 1/4 OF SECTION 32, T10S,  
R23E, S.L.B.&M. WHICH IS TAKEN FROM  
GLOBAL POSITIONING SATELLITE  
OBSERVATIONS TO BEAR N00°29'37"W.



RELATIVE COORDINATES		
From Surface Position to Bottom Hole		
WELL	NORTH	EAST
11-32	-184'	-1,461'
24-29	1,161'	-162'
3-32	VERTICAL	
34-29	1,208'	1,157'

LATITUDE & LONGITUDE		
Surface Position - (NAD 83) Autonomous		
WELL	N. LATITUDE	W. LONGITUDE
11-32	39°54'40.60"	109°21'09.69"
24-29	39°54'40.41"	109°21'09.49"
3-32	39°54'40.22"	109°21'09.28"
34-29	39°54'40.03"	109°21'09.08"

LATITUDE & LONGITUDE		
Bottom Hole - (NAD 83) Autonomous		
WELL	N. LATITUDE	W. LONGITUDE
11-32	39°54'38.79"	109°21'28.43"
24-29	39°54'51.88"	109°21'11.57"
3-32	VERTICAL	
34-29	39°54'51.96"	109°20'54.23"

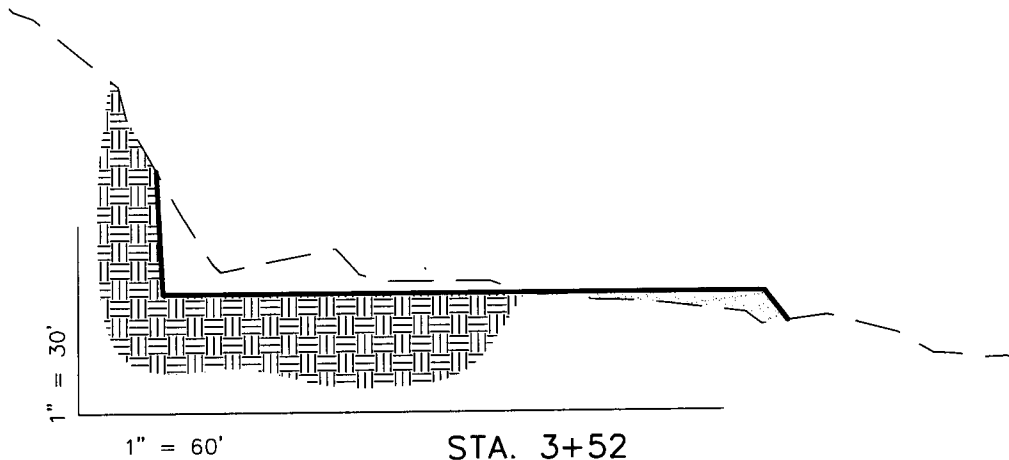
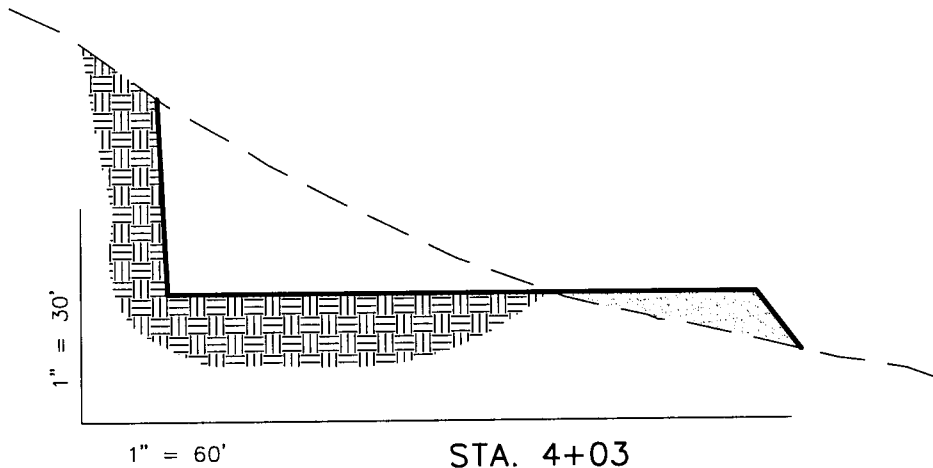
PROPOSED GRADED GROUND  
ELEVATION OF PAD IS 5184.5'

CUT SHEET - ROCK HOUSE 3-32-10-23,  
ROCK HOUSE 10-23-34-29, ROCK HOUSE 10-23-24-29  
& ROCK HOUSE 10-23-11-32



Section 32, T10S, R23E, S.L.B.&M.		Qtr/Qtr Location: NE NW		Footage Location: 521' FNL & 2154' FWL	
Date Surveyed: 12-03-05	Date Drawn: 12-21-05	Date Last Revision:	<i>Timberline</i> (435) 789-1365 <i>Land Surveying, Inc.</i> 38 WEST 100 NORTH VERNAL, UTAH 84078		
Surveyed By: K.R.K.	Drawn By: M.W.W.	Scale: 1" = 60'			
			SHEET 4 OF 10		

CROSS SECTIONS - ROCK HOUSE 3-32-10-23,  
ROCK HOUSE 10-23-34-29, ROCK HOUSE 10-23-24-29  
& ROCK HOUSE 10-23-11-32



NOTE:  
CUT SLOPES ARE DEPICTED  
VERTICALLY TO MATCH  
EXISTING PAD  
FILL SLOPES ARE AT 1.5:1

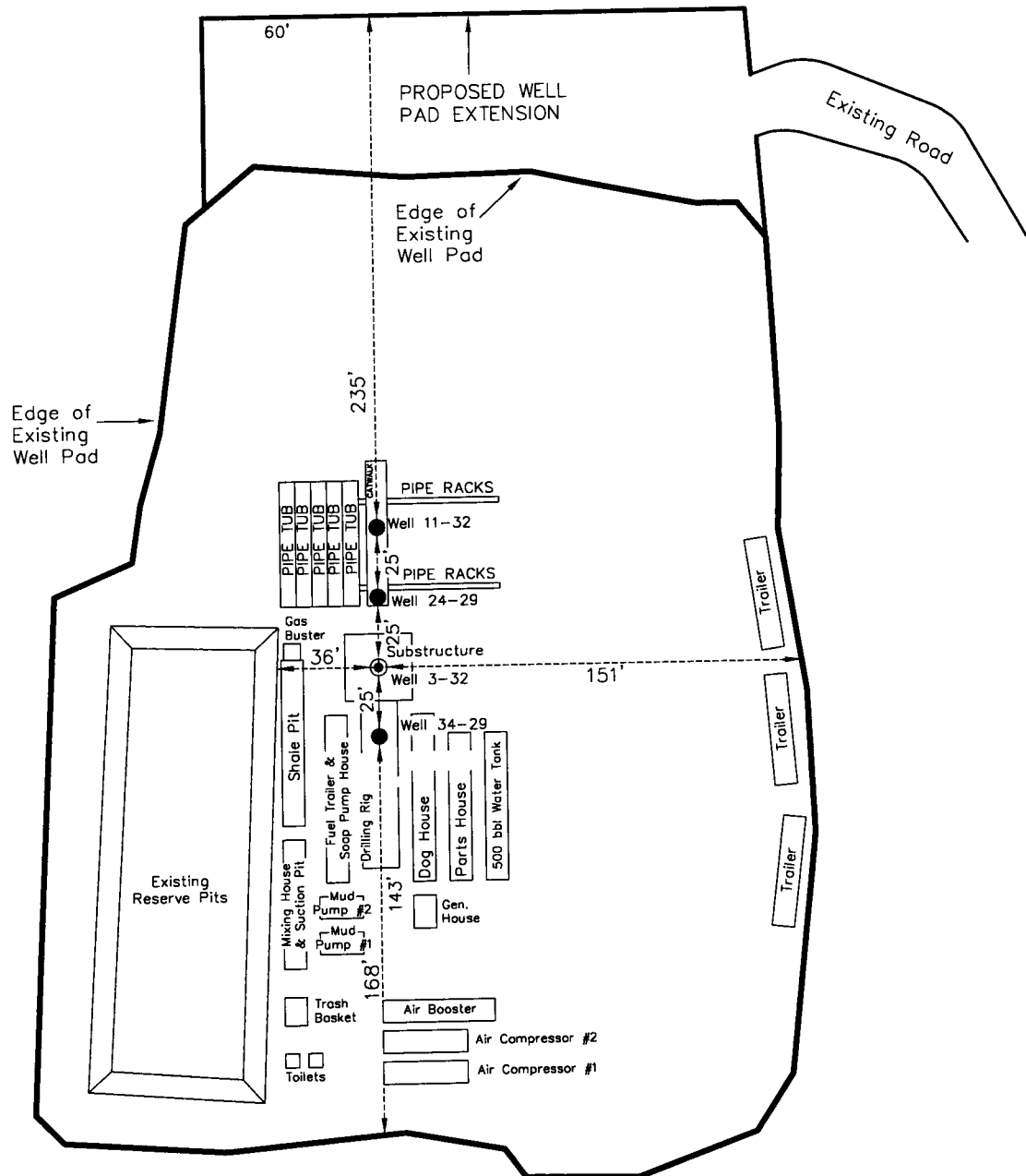
Pit overburden is included in pad cut.

ESTIMATED EARTHWORK QUANTITIES (No shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	3,280	670	Topsoil is not included in Pad Cut	2,610
PIT	0	0		0
TOTALS	3,280	670	1,560	2,610

Excess Material after Pit Rehabilitation = 2,610 Cu. Yds.

Section 32, T10S, R23E, S.L.B.&M.		Qtr/Qtr Location: NE NW		Footage Location: 521' FNL & 2154' FWL	
Date Surveyed: 12-03-05	Date Drawn: 12-21-05	Date Last Revision:	<b>Timberline</b> (435) 789-1365 <b>Land Surveying, Inc.</b> 38 WEST 100 NORTH VERNAL, UTAH 84078		
Surveyed By: K.R.K.	Drawn By: M.W.W.	Scale: 1" = 60'			
			SHEET 5 OF 10		

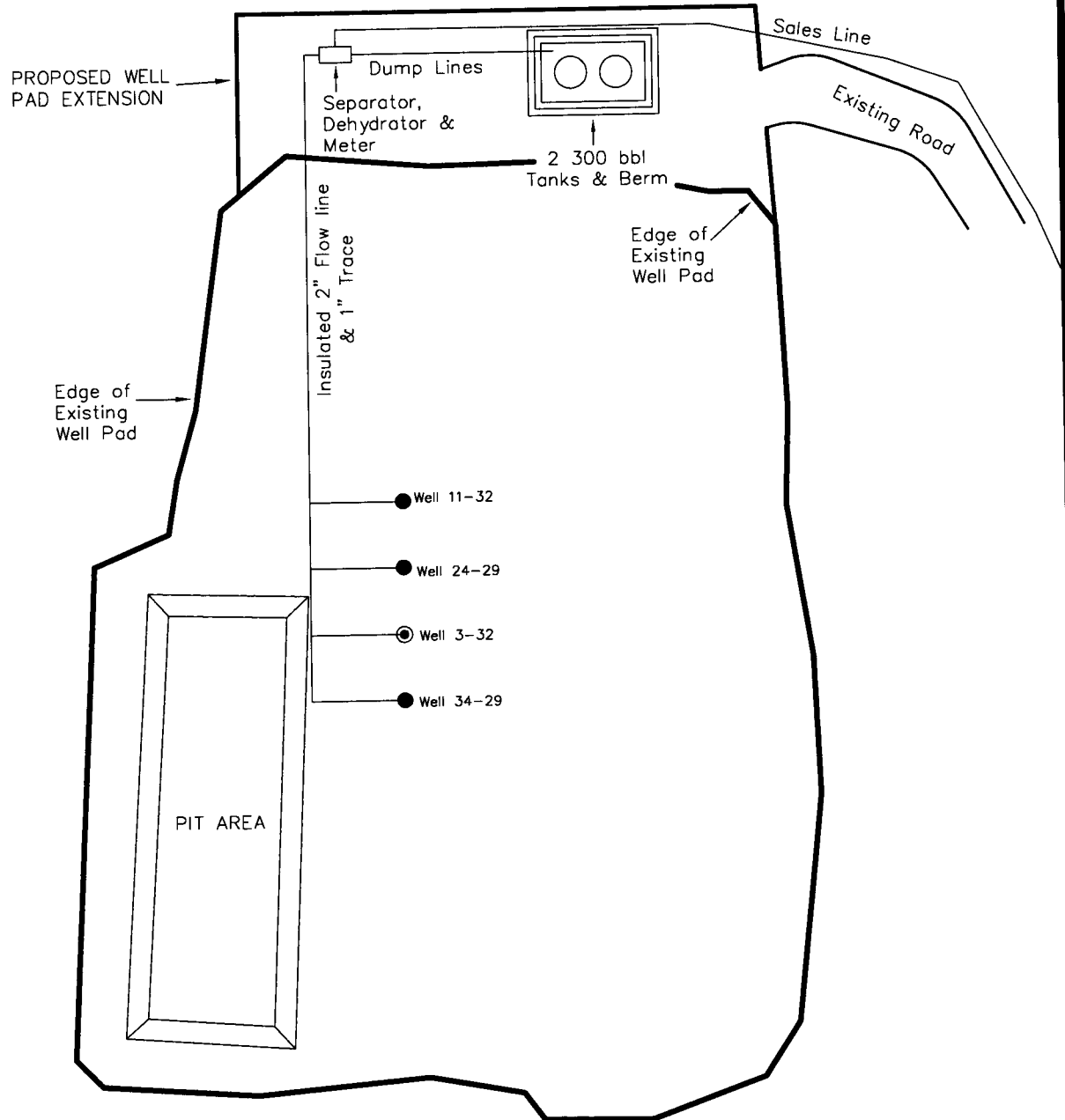
TYPICAL RIG LAYOUT - ROCK HOUSE 3-32-10-23,  
ROCK HOUSE 10-23-34-29, ROCK HOUSE 10-23-24-29  
& ROCK HOUSE 10-23-11-32



Section 32, T10S, R23E, S.L.B.&M.		Qtr/Qtr Location: NE NW		Footage Location: 521' FNL & 2154' FWL	
Date Surveyed: 12-03-05	Date Drawn: 12-21-05	Date Last Revision:	<b>Timberline</b> <i>Land Surveying, Inc.</i> 38 WEST 100 NORTH VERNAL, UTAH 84078 (435) 789-1365		SHEET 6 OF 10
Surveyed By: K.R.K.	Drawn By: M.W.W.	Scale: 1" = 60'			

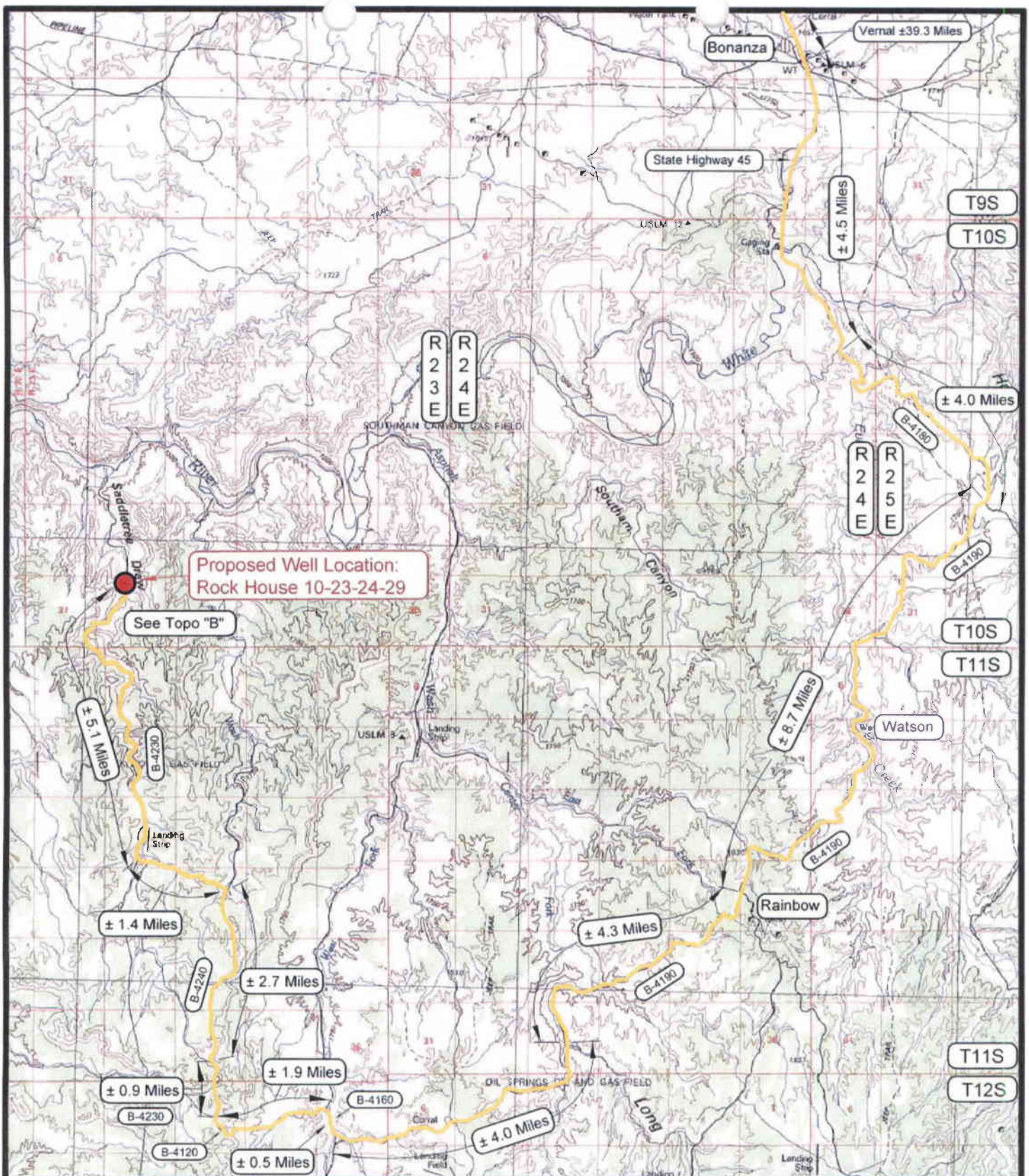
# ENDURING RESOURCES

TYPICAL PRODUCTION LAYOUT – ROCK HOUSE 3-32-10-23,  
ROCK HOUSE 10-23-34-29, ROCK HOUSE 10-23-24-29  
& ROCK HOUSE 10-23-11-32



Section 32, T10S, R23E, S.L.B.&M.		Qtr/Qtr Location: NE NW	Footage Location: 521' FNL & 2154' FWL
Date Surveyed: 12-03-05	Date Drawn: 12-21-05	Date Last Revision:	<b>Timberline</b> (435) 789-1365 Land Surveying, Inc. 38 WEST 100 NORTH VERNAL, UTAH 84078
Surveyed By: K.R.K.	Drawn By: M.W.W.	Scale: 1" = 60'	
			SHEET 7 OF 10





#### LEGEND

- = PROPOSED WELL LOCATION
- = EXISTING ROAD
- = EXISTING ROAD (TO BE IMPROVED)
- = PROPOSED ACCESS ROAD
- B-5460 = COUNTY ROAD CLASS & NUMBER

#### TOPOGRAPHIC MAP "A"

SCALE: 1"=10,000'

DRAWN BY: M.W.W.

DATE SURVEYED: 12-08-05

DATE DRAWN: 12-09-05

REVISED: 05-08-06

#### ENDURING RESOURCES

##### Rock House 10-23-24-29

Other wells on this pad: Rock House 3-32-10-23,  
Rock House 10-23-34-29 & Rock House 10-23-11-32  
**SECTION 30, T10S, R23E, S.L.B.&M.**

**Timberline Land Surveying, Inc.**

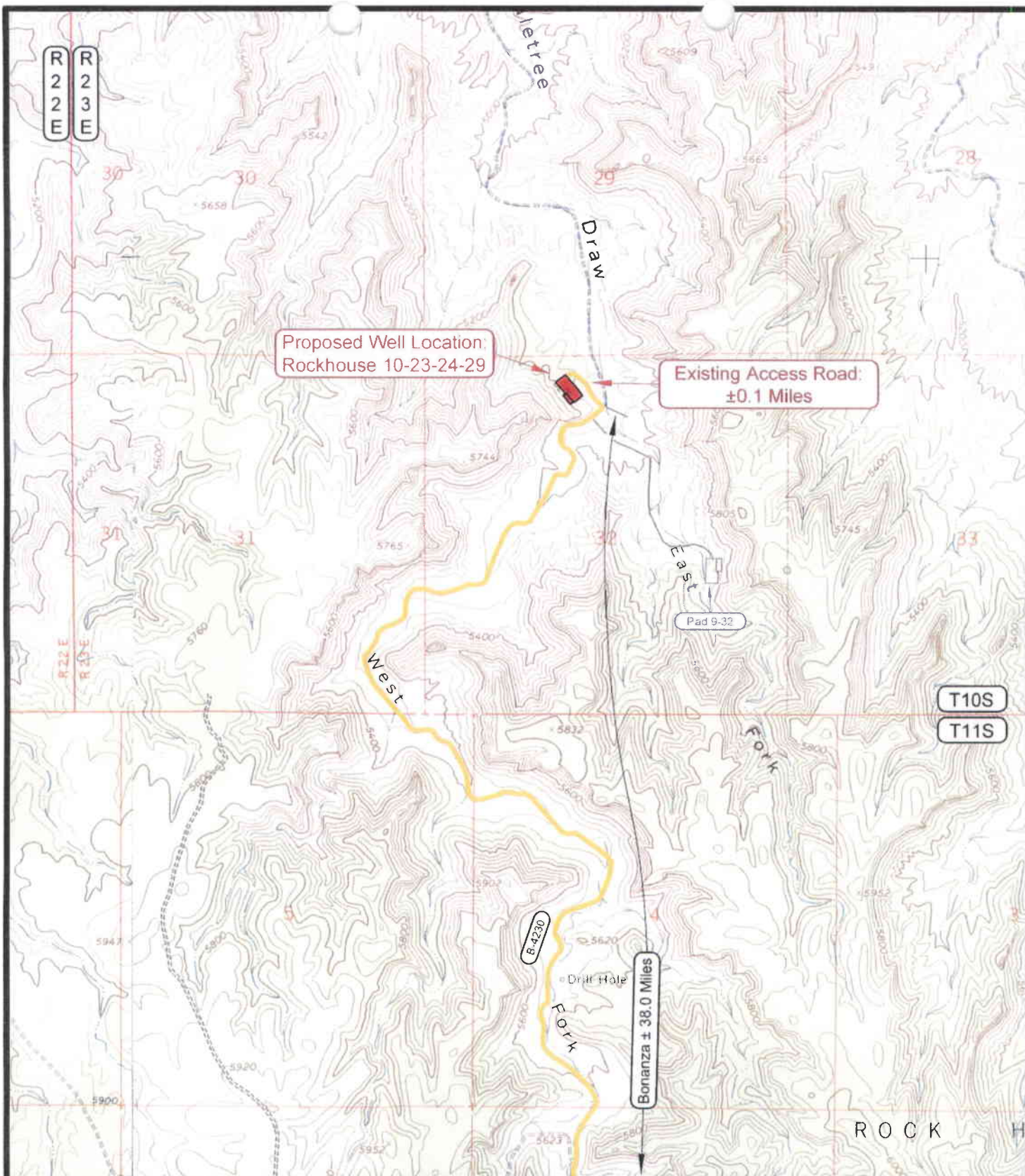
38 West 100 North Vernal, Utah 84078  
(435) 789-1365

SHEET

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OF 11





#### LEGEND

- PROPOSED ACCESS ROAD
- = SUBJECT WELL
- = SHARED ACCESS
- = EXISTING ROAD
- = EXISTING ROAD (TO BE IMPROVED)
- (B-5460) = COUNTY ROAD CLASS & NUMBER
- = LEASE LINE AND / OR PROPERTY LINE

#### TOPOGRAPHIC MAP "B"

SCALE: 1" = 2000'

DRAWN BY: M.W.W.

DATE SURVEYED: 12-08-05

DATE DRAWN: 12-09-05

REVISED: 05-08-06

#### ENDURING RESOURCES

##### Rock House 10-23-24-29

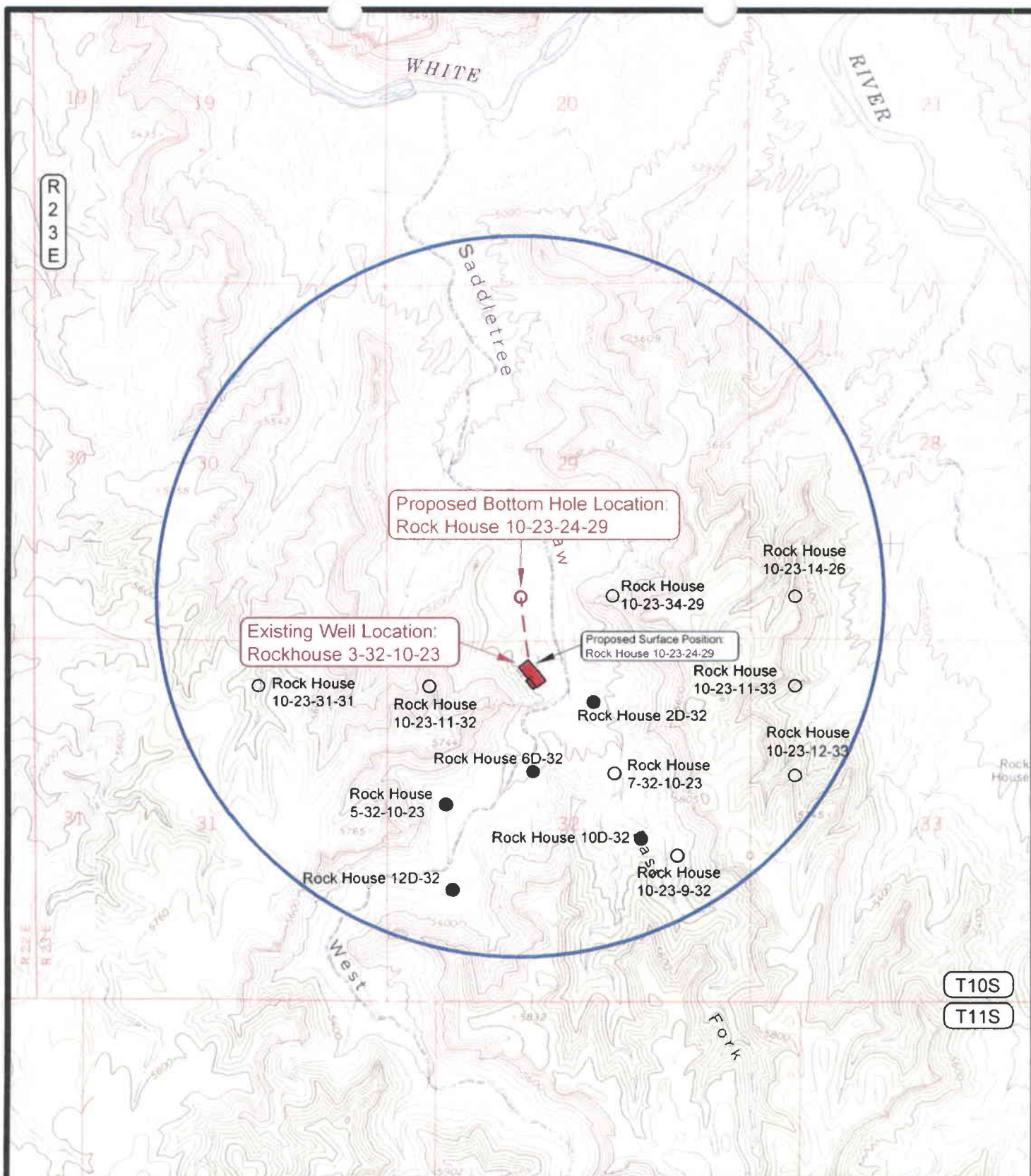
Other wells on this pad: Rock House 3-32-10-23,  
Rock House 10-23-34-29 & Rock House 10-23-11-32  
SECTION 30, T10S, R23E, S.L.B.&M.

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OF 11





T10S  
T11S

### LEGEND

- |                    |                                |
|--------------------|--------------------------------|
| ⊘ = DISPOSAL WELL  | ⊘ = WATER WELL                 |
| ● = PRODUCING WELL | ● = ABANDONED WELL             |
| ● = SHUT IN WELL   | ● = TEMPORARILY ABANDONED WELL |
| ○ = PROPOSED WELL  | ⊕ = ABANDONED LOCATION         |

TOPOGRAPHIC MAP "C"

DATE SURVEYED: 12-08-05

DATE DRAWN: 12-09-05

SCALE: 1" = 2000'

DRAWN BY: M.W.W.

REVISED:

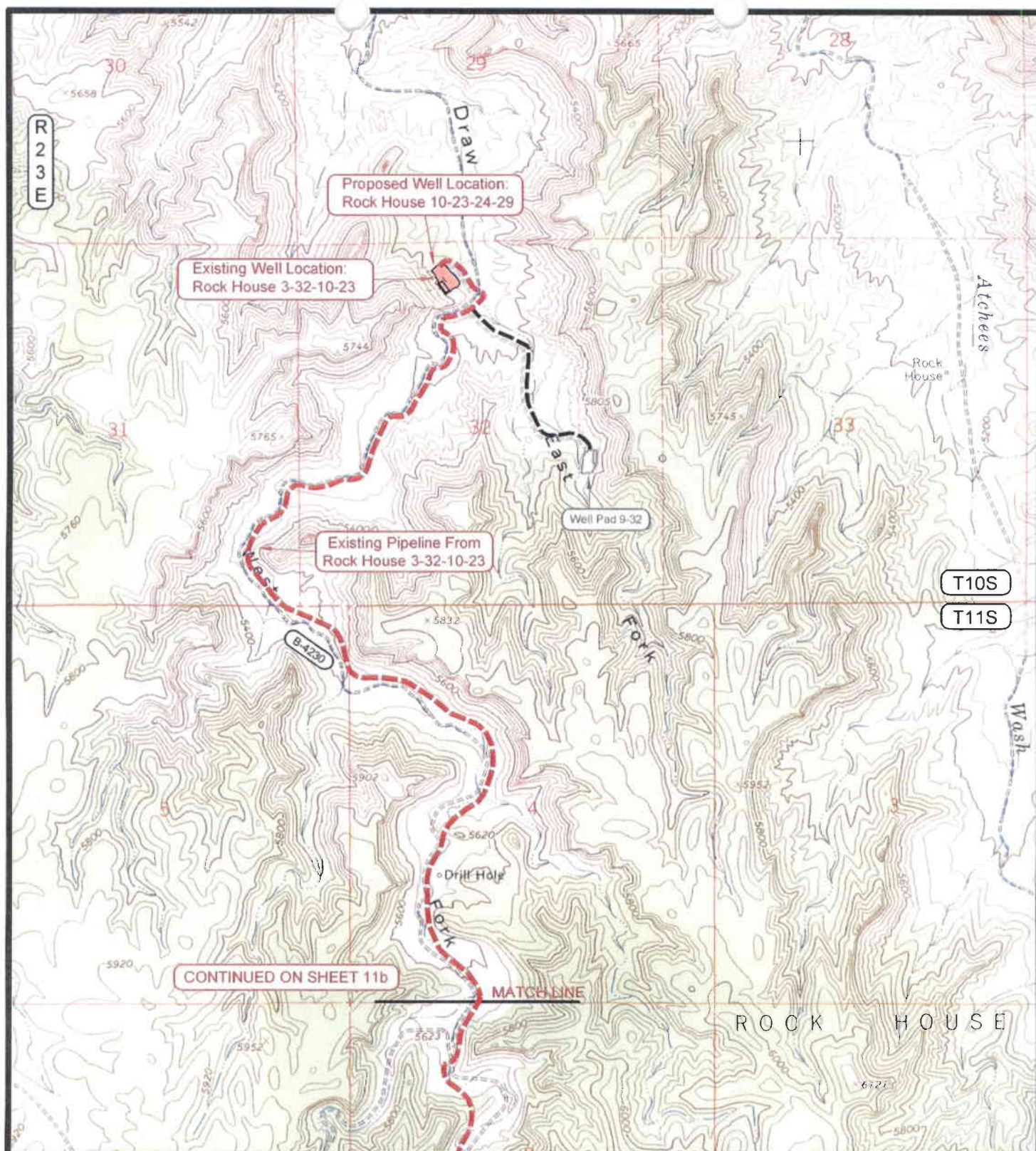
### ENDURING RESOURCES

**Rock House 10-23-24-29**  
**SECTION 29, T10S, R23E, S.L.B.&M.**  
**Bottom Hole: 660' FSL & 1980' FWL**

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 (435) 789-1365

**SHEET**  
**10b**  
**OF 10**





APPROXIMATE PIPELINE LENGTH = 5.1 Miles

#### LEGEND

- = SUBJECT PIPELINE
- = OTHER PIPELINE
- = PROPOSED ACCESS ROAD
- = SUBJECT WELL
- = OTHER WELLS
- = LEASE LINE AND / OR PROPERTY LINE
- B-5460 = COUNTY ROAD CLASS & NUMBER

TOPOGRAPHIC MAP "D"

DATE SURVEYED: 12-08-05

DATE DRAWN: 01-12-06

SCALE: 1" = 2000'

DRAWN BY: M.W.W.

REVISED: 05-06-06

#### ENDURING RESOURCES

##### Rock House 10-23-24-29

Other wells on this pad: Rock House 3-32-10-23,  
Rock House 10-23-34-29 & Rock House 10-23-11-32

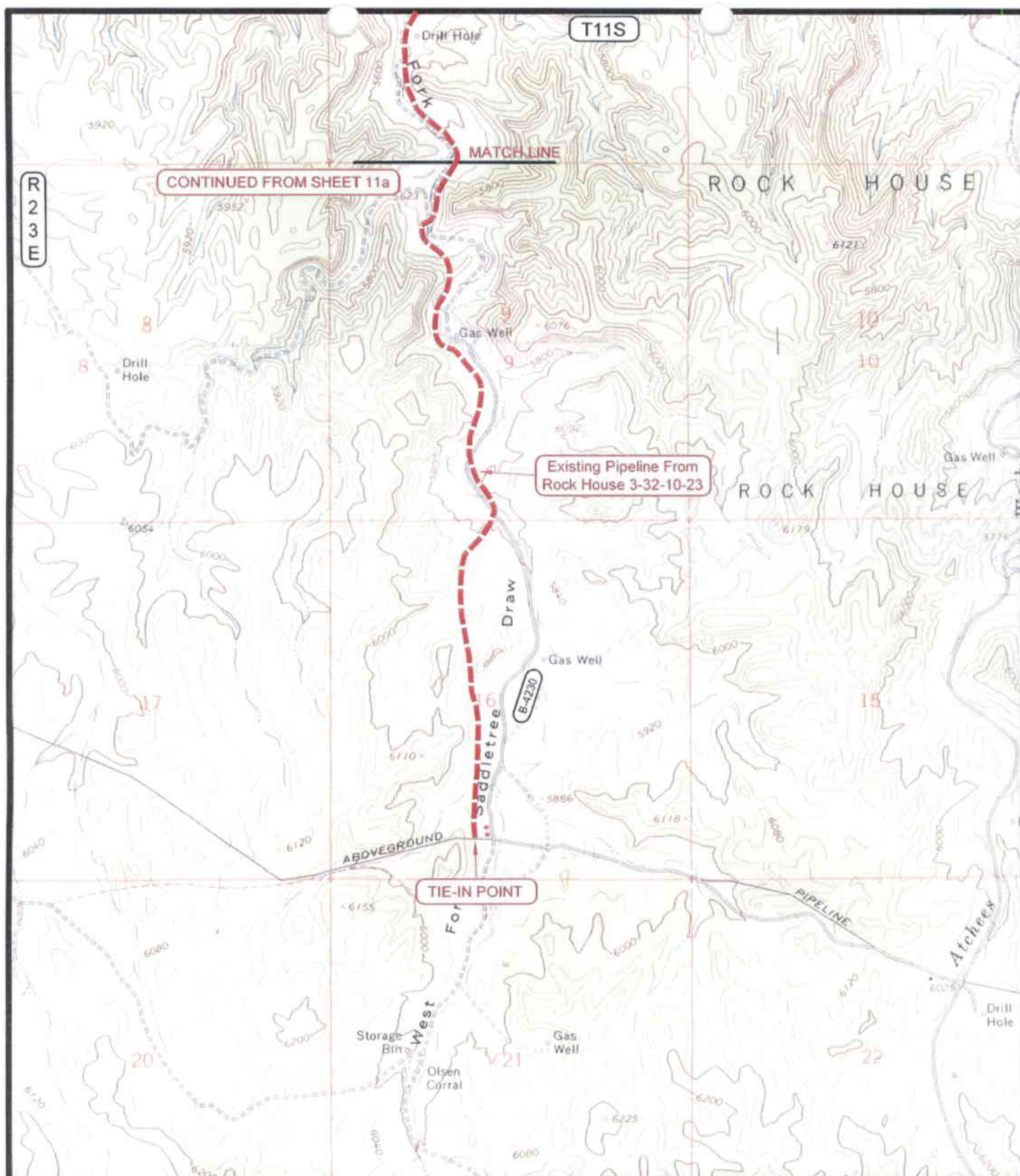
SECTION 30, T10S, R23E, S.L.B.&M.

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SHEET  
11a  
OF 11





### LEGEND

- = SUBJECT PIPELINE
- = OTHER PIPELINE
- = PROPOSED ACCESS ROAD
- = SUBJECT WELL
- = OTHER WELLS
- = LEASE LINE AND / OR PROPERTY LINE
- = COUNTY ROAD CLASS & NUMBER

TOPOGRAPHIC MAP "D"

DATE SURVEYED: 12-08-05

DATE DRAWN: 01-12-06

SCALE: 1" = 2000'

DRAWN BY: M.W.W.

REVISED: 05-08-06

### ENDURING RESOURCES

#### Rock House 10-23-24-29

Other wells on this pad: Rock House 3-32-10-23,  
Rock House 10-23-34-29 & Rock House 10-23-11-32

SECTION 30, T10S, R23E, S.L.B.&M.

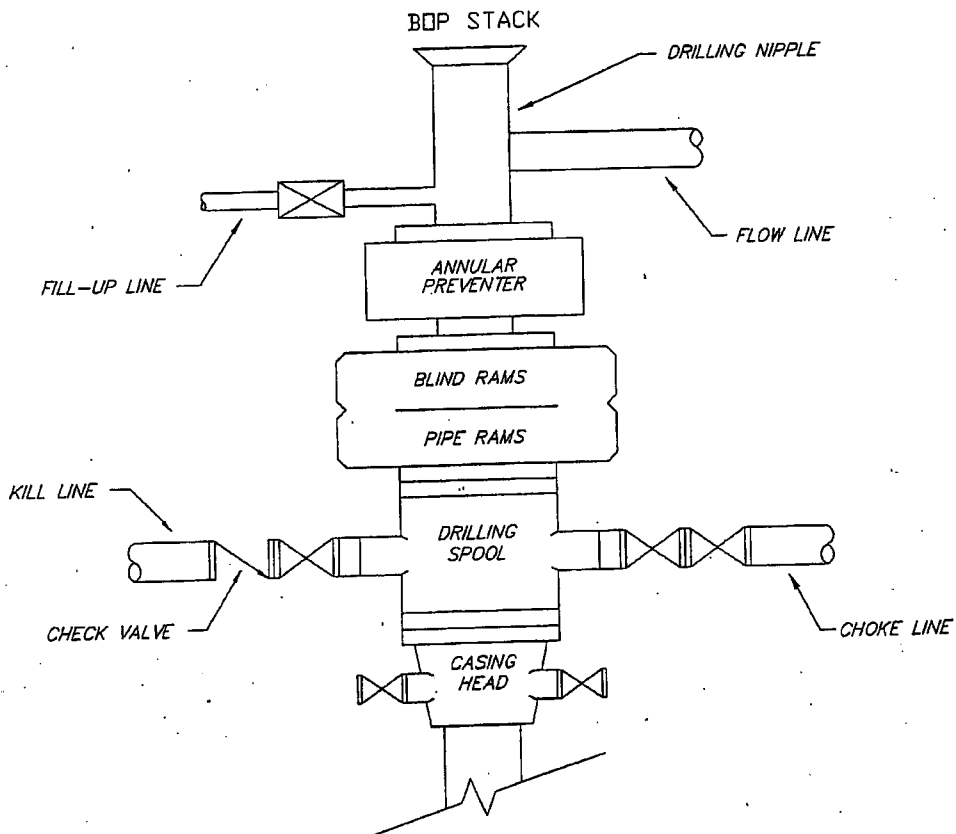
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11b  
OF 11

# ENDURING RESOURCES, LLC

## TYPICAL 3,000 p.s.i. BLOWOUT PREVENTER SCHEMATIC



## TYPICAL 3,000 p.s.i. CHOKER MANIFOLD SCHEMATIC

